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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/529,481	03/28/2005	Kunio Fukuda	450100-04783	8089
	7590 07/05/2007	EXAMINER		
WUUDAM N PROM		CONTEE, JOY KIMBERLY		
William S From Frommer Lawre	ence & Haug		CONTEE, JOY	KIMBERLY
Frommer Lawre 745 Fifth Avenu	ence & Haug le		CONTEE, JOY ART UNIT	KIMBERLY PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application N	0.	Applicant(s)		
		10/529,481		FUKUDA, KUNIO		
Office Action S	ummary	Examiner		Art Unit		
		Joy K. Contee		2617		
	this communication a			correspondence address		
Period for Reply						
A SHORTENED STATUTOF WHICHEVER IS LONGER, I - Extensions of time may be available u after SIX (6) MONTHS from the mailin - If NO period for reply is specified abov - Failure to reply within the set or exten Any reply received by the Office later earned patent term adjustment. See 3	FROM THE MAILING nder the provisions of 37 CFR g date of this communication. re, the maximum statutory peri ded period for reply will, by sta than three months after the ma	DATE OF THIS (1.136(a). In no event, h od will apply and will exp tute, cause the application	COMMUNICATIO owever, may a reply be the ire SIX (6) MONTHS from n to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).		
Status						
1) Responsive to commu	nication(s) filed on 28	8 March 2005.				
2a) This action is FINAL .		his action is non-	inal.			
3) Since this application i	e this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance v	with the practice unde	er Ex parte Quayle	e, 1935 C.D. 11, 4	53 O.G. 213.		
Disposition of Claims						
4) Claim(s) <u>13-15</u> is/are p	ending in the applica	tion.				
4a) Of the above claim			eration.			
5) Claim(s) is/are a	· ·					
6) Claim(s) <u>13-15</u> is/are r	ejected.					
7) Claim(s) is/are	objected to.					
8) Claim(s) are su	bject to restriction and	d/or election requ	rement.			
Application Papers						
9) The specification is obj	ected to by the Exami	iner.				
10) The drawing(s) filed on	28 March 2005 is/are	e: a)⊠ accepted	or b) objected	to by the Examiner.		
Applicant may not reques	st that any objection to t	he drawing(s) be he	eld in abeyance. Se	e 37 CFR 1.85(a).		
Replacement drawing sh	eet(s) including the corr	ection is required if	the drawing(s) is of	pjected to. See 37 CFR 1.121(d).		
11) The oath or declaration	is objected to by the	Examiner. Note t	he attached Office	Action or form PTO-152.		
Priority under 35 U.S.C. § 119						
12) Acknowledgment is ma	de of a claim for forei	ign priority under	35 U.S.C. § 119(a	ı)-(d) or (f).		
a) 🖾 All b) 🗌 Some * c)	None of:					
1. Certified copies	of the priority docume	ents have been re	ceived.			
2. Certified copies	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the ce	3. Copies of the certified copies of the priority documents have been received in this National Stage					
	the International Bure					
* See the attached detaile	ed Office action for a I	ist of the certified	copies not receive	ed.		
Attachment(c)						
Attachment(s) 1) X Notice of References Cited (PTO-	892)	4)	Interview Summar	(PTO-413)		
2) DNotice of Draftsperson's Patent D	rawing Review (PTO-948)		Paper No(s)/Mail D	Date		
 Information Disclosure Statement Paper No(s)/Mail Date <u>3/28/05</u>. 	(s) (PTO/SB/08)	5)	Notice of Informal Other:	Patent Application		
S. Patent and Trademark Office						
TOL-326 (Rev. 08-06)	Öffice	Action Summary	P	art of Paper No./Mail Date 20070623		

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 13-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Adachi, US 6,018,642.

Regarding claim 13, Adachi discloses a wireless communication system comprising a plurality of wireless terminal devices and a wireless communication management device for managing communication between the wireless terminal devices, wherein:

said wireless communication management device comprises beacon

transmission means for transmitting main beacons (reads on beacons received regulary from the base station) at a fixed interval to perform synchronization in said wireless communication system and for transmitting sub beacons(reads on time extension information from base station) between said main beacons, wherein said main beacon and said sub beacon include beacon time period information indicating a period of time until said main beacon is transmitted next, and <u>at least one</u> of idle information to allow an unspecified wireless terminal device of said wireless terminal devices to perform

wireless terminal devices perform transmission, transmission notification information to make an advance notice of transmission of transmission data after transmission of said beacon to a specified wireless terminal device of said wireless terminal devices, transmission notification information to make an advance notice of transmission of data after transmission of said beacon to a specified wireless terminal device of said wireless terminal devices (see col. 10, line 39- col. 11, line 4 and lines 12-51), <u>and transmission acknowledgement information indicating for a specified wireless terminal device of said device of said wireless terminal devices terminal device was successful or unsuccessful (see col. 15, lines 23-65);</u>

and said wireless terminal device comprises:

data division means for comparing said beacon time period information included in said main beacon or said sub beacon received, with a required transmission time of transmission data (reads on predetermined period of time set for data receive ready period), and then dividing the transmission data so that transmission of the transmission data divided is finished before next transmission of said main beacon is started when the required transmission time is the beacon time period information or longer (i.e., when data is transmitted beyond the data receive ready period); and data transmission means for transmitting said transmission data (see col. 6, lines 45-59).

Regarding claim 14, Adachi discloses a wireless terminal device for performing wireless communication under the control of a prescribed wireless communication management device, said wireless terminal device comprising:

reception means for receiving main beacons that are transmitted at a fixed interval from said wireless communication management device and a sub beacon that is transmitted between the main beacons; data division means for comparing beacon time period information that is included in said main beacon and said sub beacon received and indicates a period of time until said main beacon is transmitted next, with a required transmission time of transmission data, and when said required transmission time is said beacon time period information or longer, dividing said transmission data so that transmission of the transmission data divided is finished before next transmission of said main beacon is started; and data transmission means for transmitting said transmission data (see col. 6,lines 45-59, col. 10,line 39- col. 11,line 4 and lines 12-51 and col. 15,lines 23-65).

Regarding claim 15, Adachi discloses a communication control method in a wireless communication system comprising a plurality of wireless terminal devices and a wireless communication management device for managing communication between the plurality of wireless terminal devices, wherein:

main beacons for performing synchronization in said wireless communication system are transmitted at a fixed interval from said wireless communication management device, and sub beacons are transmitted between said main beacons from said wireless communication management device; said main beacon and said sub beacon includes beacon time period information indicating a period of time until said main beacon is transmitted next, and <u>at least one</u> of idle information to allow an unspecified wireless terminal device of said wireless terminal devices to perform

transmission, polling information to make a specified wireless terminal device of said wireless terminal devices perform transmission, transmission notification information to make an advance notice of transmission of transmission data after transmission of said beacon to a specified wireless terminal device of said wireless terminal devices, <u>and</u> <u>transmission acknowledgement information indicating for a specified wireless</u> <u>terminal device of said wireless terminal devices whether reception of data</u> <u>transmitted from the wireless terminal device was successful or unsuccessful</u>; and said wireless terminal device compares said beacon time period information included in said main beacon or said sub beacon received, with a required transmission time of transmission data, and when the required transmission time is the beacon time period information or longer, divides said transmission data so that transmission of the transmission data divided is finished before next transmission of said main beacon is started, and transmits the transmission data (see col. 6,lines 45-59, col. 10,line 39- col. 11,line 4 and lines 12-51 and col. 15,lines 23-65).

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Meier, US Pub. No. 2006/0092868 discloses a point controlled contention arbitration in multiple access WLANs.

Myles et al., Us Pub. No. 2007/0091934 discloses a method and apparatus for clock synchronization in a wireless network.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joy K. Contee whose telephone number is 571.272.7906. The examiner can normally be reached on Monday through Friday, 5:30 a.m. to 2:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Appiah can be reached on 571.272.7904. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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